

**AMENDMENTS TO THE CLAIMS**

1-65 (Cancelled)

66. (New) A filter element comprising a cylindrical filter media and an exoskeleton for the filter media;

the filter media being formed from only cellulose-fiber-free and woven-mesh-free layers which are folded to form a plurality of longitudinally-extending pleats having radially inner-peaks defining an inner diameter and radially-outer peaks defining an outer diameter;

the exoskeleton comprising a support screen thermally bonded to the radially-outer peaks of the filter media, providing an at least 50% open flow area, and providing a tight array of attachment points supporting the pleats in an appropriately spaced and non-collapsed condition;

the support screen comprising a sheet of screen material having a width approximately equal to the axial dimension of the filter media;

the filter element being characterized by the absence of cellulose-fiber and woven-mesh endoskeleton support layers in the filter media and by the absence of a support structure surrounding the support screen.

67. (New) A filter element as set forth in claim 66, wherein the layers comprise an inner layer, an outer layer, and a filtration layer therebetween; and wherein the filter media has a density of about 8 or more pleats per inner diameter inch.

68. (New) A filter element as set forth in claim 67, wherein the layers of the filter media consist essentially of the inner layer, the outer layer, the filtration layer.

69. (New) A filter element as set forth in claim 67, wherein the inner layer is made of a non-woven polymer, the outer layer is made of a non-woven polymer, and the filtration layer is made of fiberglass or at least one polymer.

70. (New) A filter element as set forth in claim 67, wherein the inner and outer layers each have a thickness of less than about 0.030 inches.

71. (New) A filter element as set forth in claim 66, wherein the layers of the filter media consist essentially of an inner layer, an outer layer, and a filtration layer therebetween; and wherein the filtration layer is made of at least one of fiberglass, nylon, polyamide, polyester, polyethylene, polypropylene, or mixtures thereof, and wherein the inner and outer layers each have a thickness less than about 0.030 inches and are made of a non-woven polymer.

72. (New) A filter element as set forth in claim 66, wherein support screen comprises a first set of cords extending in a first direction, a second set of cords extending in a second direction and intersecting with the first set of cords, and openings defined therebetween;

wherein adjacent cords in the first set are separated from each other by a distance  $d_1$ , adjacent cords in the second set are separated from each other by a distance  $d_2$ , and adjacent radially-outer peaks are separated from each other by a distance  $d_{\text{pleat}}$ ; and

wherein the distance  $d_1$  between the first set of cords is about half to about twice the distance  $d_{\text{pleat}}$  between adjacent radially-outer peaks.

73. (New) A filter element as set forth in claim 66, wherein the sheet of screen material has a length approximately equal to the circumferential dimension of the filter media plus a seam allowance and the support screen has lateral edges joined together at a side seam.

74. (New) A filter element as set forth in claim 73, wherein the side seam extends substantially parallel to a longitudinal axis of the filter media.

75. (New) A filter element as set forth in claim 73, wherein the lateral edges overlap and are thermally bonded together to form the side seam.

76. (New) A filter element as set forth in claim 66, wherein the support screen is made of a PVC coated fiberglass mesh.

77. (New) A filter element as set forth in claim 66, wherein the filter element is a microfilter element for removing impurities in the range of about 0.5  $\mu\text{m}$  to about 25.0  $\mu\text{m}$  from hydrocarbon fuel.

78. (New) A filter element as set forth in claim 66, wherein the filter element is a microfilter element for removing impurities in the range of about 0.5  $\mu\text{m}$  to about 25.0  $\mu\text{m}$  from hydrocarbon fuel.

79. (New) A filter element as set forth in claim 66, wherein the filter media is a coalescer element for removing free water and particulate from aviation fuel.